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Grain Crushings and Co- Products Production 2019 Summary

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2019 Grain Crushings and Co-Products Production

As part of the Current Agricultural Industrial Reports (CAIR) program, the 2019 Annual Summary of the Grain Crushings and Co-Products Production contains data and annual totals for January through December 2019.

Total corn consumed for alcohol for 2019 was 5.45 billion bushels, down 4 percent from 2018. Corn for beverage alcohol in 2019 totaled 41.1 million bushels, up 16 percent from 2018. Corn for fuel alcohol was 5.33 billion bushels in 2019, down 4 percent from 2018.

Dry mill co-product production of distillers dried grains with solubles (DDGS) was 22.6 million tons during 2019, down 5 percent from 2018. Distillers wet grains (DWG) 65 percent or more moisture was 15.7 million tons in 2019, down 3 percent from 2018. Distillers dried grain (DDG) was 4.30 million tons in 2019, down 7 percent from 2018.

Wet mill corn gluten feed production was 3.47 million tons during 2019, down 4 percent from 2018. Wet corn gluten feed 40 to 60 percent moisture was 2.95 million tons, down 5 percent from 2018.

Dry and wet mill carbon dioxide captured was 2.90 million tons in 2019, up 4 percent from 2018.

Dry and Wet Mill, Corn Consumed – United States: 2019

Purpose	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019
	(1,000 bushels)						
Consumed for alcohol production							
Beverage alcohol	2,869	2,740	3,455	3,692	3,327	3,439	5,111
Fuel alcohol	444,016	402,894	441,960	440,477	459,485	456,431	450,782
Dry mill	405,454	367,273	402,843	399,729	418,280	415,763	407,328
Wet mill	38,562	35,621	39,117	40,748	41,205	40,668	43,454
Industrial alcohol	6,787	6,157	7,133	6,260	5,924	5,926	7,458
Consumed for other purposes							
Total wet mill products other than fuel	38,948	37,285	42,605	42,730	46,668	43,557	44,229

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Dry Mill, Sorghum Consumed – United States: 2019

Purpose	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Fuel alcohol	4,883	5,054	5,167	4,418	5,176	4,918	5,438

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Dry and Wet Mill, Co-products and Products Produced – United States: 2019

Co-products and products	January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019
	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)
Condensed distillers solubles (CDS - syrup)	118,145	109,504	115,583	127,703	115,995	97,365	108,366
Corn oil (Corn Distillers Oil - CDO)	148,896	132,627	149,168	150,114	157,623	164,366	165,477
Distillers dried grains (DDG)	369,647	336,464	386,413	376,775	401,171	369,394	379,689
Distillers dried grains with solubles (DDGS)	1,822,623	1,691,758	1,866,807	1,858,305	1,942,792	1,959,560	1,985,820
Distillers wet grains (DWG)							
65% or more moisture	1,357,504	1,213,815	1,337,382	1,351,347	1,363,679	1,294,222	1,197,747
Modified distillers wet grains (DWG)							
40% to 64% moisture	469,787	427,761	362,412	364,589	456,572	391,650	378,821
Wet mill							
Corn germ meal	61,166	56,218	61,001	69,703	68,852	66,291	72,397
Corn gluten feed	263,218	250,857	304,047	296,681	298,347	286,101	300,572
Corn gluten meal	84,214	77,454	88,890	91,364	93,185	92,107	93,494
Wet corn gluten feed							
40% to 60% moisture	253,103	224,333	224,850	253,959	269,967	250,826	252,084
Dry and wet mill							
Carbon dioxide captured	262,241	221,058	242,832	223,667	235,559	260,283	254,014

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Dry and Wet Mill, Corn Consumed – United States: 2019 (continued)

Purpose	August 2019	September 2019	October 2019	November 2019	December 2019	Total 2019
	(1,000 bushels)					
Consumed for alcohol production						
Beverage alcohol	3,341	3,300	3,195	3,406	3,239	41,114
Fuel alcohol	454,633	405,685	439,116	456,660	479,214	5,331,353
Dry mill	410,749	365,513	396,666	413,477	431,514	4,834,589
Wet mill	43,884	40,172	42,450	43,183	47,700	496,764
Industrial alcohol	5,929	5,327	6,324	6,198	6,804	76,227
Consumed for other purposes						
Total wet mill products other than fuel	43,906	39,683	39,577	40,433	40,958	500,579

Dry Mill, Sorghum Consumed – United States: 2019 (continued)

Purpose	August 2019	September 2019	October 2019	November 2019	December 2019	Total 2019
	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)	(1,000 cwt)
Fuel alcohol	6,115	5,127	4,054	4,044	5,341	59,735

Dry and Wet Mill, Co-products and Products Produced – United States: 2019 (continued)

Co-products and products	August 2019	September 2019	October 2019	November 2019	December 2019	Total 2019
	(tons)	(tons)	(tons)	(tons)	(tons)	(tons)
Dry mill						
Condensed distillers solubles (CDS - syrup)	95,690	102,911	93,867	99,399	101,158	1,285,686
Corn oil (Corn Distillers Oil - CDO)	163,646	142,861	150,112	159,852	165,210	1,849,952
Distillers dried grains (DDG)	336,043	286,849	348,762	316,390	388,156	4,295,753
Distillers dried grains with solubles (DDGS)	2,014,491	1,788,730	1,871,852	1,880,488	1,908,251	22,591,477
Distillers wet grains (DWG) 65% or more moisture	1,282,770	1,217,873	1,296,708	1,348,281	1,403,875	15,665,203
Modified distillers wet grains (DWG) 40% to 64% moisture	409,285	398,844	447,475	458,120	493,170	5,058,486
Wet mill						
Corn germ meal	61,915	64,059	51,988	63,073	68,957	765,620
Corn gluten feed	306,375	289,797	293,890	272,089	306,318	3,468,292
Corn gluten meal	90,513	86,423	87,589	90,102	93,644	1,068,979
Wet corn gluten feed 40% to 60% moisture	261,243	208,645	233,348	262,089	257,381	2,951,828
Dry and wet mill						
Carbon dioxide captured	266,355	253,981	241,014	222,636	220,510	2,904,150

Statistical Methodology

Survey Procedures: *Grain Crushings and Co-Products Production* is part of the Current Agricultural Industrial Reports (CAIR) program. CAIR reports are administered under NASS's Census of Agriculture program. Response to CAIR surveys are required by law (Title 7, U.S. Code). Data are collected from all known mills that produce ethanol.

The census universe was determined during operation profile interviews which were completed for each potential facility to identify the presence of ethanol production in 2014. During the operation profile, facilities that met the survey criteria were asked for the nameplate production capacity. The operation profile also documented the manner in which the firm will report. A firm headquarters can report for all milling locations or each location can report separately.

In the Dry Mill Producers and Wet Mill Producers survey questionnaires, mills are asked for previous calendar month data on feedstocks consumed, products and co-products produced. Mills are mailed questionnaires with the options of completing the survey by mail or by Electronic Data Reporting (EDR). For surveys not received in a reasonable amount of time, telephone follow-up is conducted.

Estimating Procedures: Imputation is done for operations with non-response by using historical data and current data relationships. Data for reporting firms are added to estimates for non-reporting firms to obtain National totals.

Revision Policy: Data are revised the following month based on late reports or corrected data. Final figures are published in the annual summary of the following year.

Reliability: Approximately 130 reports are received each month which represent about 90 percent of total capacity. Monthly data can vary due to different firms reporting month to month. Survey data are also subject to non-sampling errors such as omissions and mistakes in reporting and in processing the data. While these errors cannot be measured directly, they are minimized by carefully reviewing all reported data for consistency and reasonableness.

Information Contacts

Listed below are the commodity statisticians in the Crops Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@nass.usda.gov.

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James Johanson – County Estimates, Hay.....	(202) 690-8533
Jeff Lemmons – Oats, Soybeans.....	(202) 690-3234
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Chris Hawthorn – Peanuts, Rice.....	(202) 720-7688
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- Cornell’s Mann Library has launched a new website housing NASS’s and other agency’s archived reports. The new website, <https://usda.library.cornell.edu>. All email subscriptions containing reports will be sent from the new website, <https://usda.library.cornell.edu>. To continue receiving the reports via e-mail, you will have to go to the new website, create a new account and re-subscribe to the reports. If you need instructions to set up an account or subscribe, they are located at: <https://usda.library.cornell.edu/help>. You should whitelist notifications@usda-esmis.library.cornell.edu in your email client to avoid the emails going into spam/junk folders.

For more information on NASS surveys and reports, call the NASS Agricultural Statistics Hotline at (800) 727-9540, 7:30 a.m. to 4:00 p.m. ET, or e-mail: nass@usda.gov.

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